ABSTRACT

Disclosed herein are novel phenol oxidizing enzymes encoded by nucleic acid capable of hybridizing to the nucleic acid having the sequence as shown in SEQ ID NO:1 and in particular those obtainable from fungus. The present invention provides nucleic acid sequences and amino acid sequences from Bipolaris *spicifera,* Curvularia *pallescens* and Amerosporium *atrum.*

The present invention provides expression vectors and host cells comprising nucleic acid encoding phenol oxidizing enzymes, methods for producing the phenol oxidizing enzyme as well as methods for constructing expression hosts.